

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000412910008-6

FEODOT'YEV, K. M. and BORISOVICH, I. V.

"Thermal Behavior of Hydrous Borate of Pandermite," Trudy Inst. geol. nauk,  
AS USSR, No.106, 1949

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CA

8

*1951*

Kaolin and allophanoids. Thermal data. D. S. Belyan-  
kin and K. M. Feodot'ev. *Zapiski Vsesoyuz. Mineral.*  
*Obrabkostva* ("Nem. soz. russ. mineral") 80, 89-93 (1951).—  
Allophanoids are clay minerals of colloid character with  
a variable compn.  $\text{Al}_2\text{O}_3 \cdot n\text{SiO}_4 \cdot p\text{H}_2\text{O}$  ( $n = 1$  to 4;  $p$  usually  
above 4). They do not show the endothermal effect at 550°  
which is characteristic for kaolinite, or the exothermic

reaction at 1200°, but show the exothermic effect at 950°.  
Like kaolinite. For comparison, the data of R. K. Keller  
(C.A. 43, 4061c), and Belyankin and Feodot'ev (C.A.  
44, 10290) concerning kaolinite from Voronezh, and  
"monothermite" from Chasov-Yar are given, with the ana-  
lytical data of the compn. and the shrinkage amounts by  
firing. Monothermite is characterized by the absence of  
the exothermic reaction at 100°. A new instrument of  
Voronkov was used for the measurements which makes  
possible a simultaneous automatic recording of the shrink-  
age, the thermal analysis, and the differential thermal curve  
on one diagram. An artificial allophanoid was prepd. by  
simultaneous pptn. of  $\text{SiO}_4$  and  $\text{Al}_2\text{O}_3$  hydrates from an al-  
kali silicate soln. with HCl, in the mol. ratio  $\text{SiO}_4 : \text{Al}_2\text{O}_3$   
2:1, in neutral suspension (pH was controlled by methyl  
orange), and the precipitate electrodealyzed. The thermal  
analysis shows only an exothermic effect at 880°, and a very  
strong shrinkage at the same time, as a consequence of which  
the microporosity is tremendously increased. The optical  
properties as a function of the dehydration of kaolinite from  
Glibovets are not in agreement with the data previously  
given by Rhode (*Keram. Rundschau* 35, 25-6 (1927)) for  
Zettlitz kaolin. The  $n$  on the horizontal part of the curve is  
much higher ( $n = 1.524$ ) than R. gave. In her samples, the microporosity  
must have been much higher. The synthetic allophanoid  
shows a steeply increasing dehydration synthetic allophanoid  
is constantly rising from  $n = 1.495$  to 1.534, in the range  
from 20 to 500°; up to 900° it is const.,  $n = 1.540$ , and in-  
creases anew from 900 to 1300° with the final  $n = 1.559$ .

W. Eitel

FEODOT'YEV, K. M.

May/Jun 52

USSR/Geophysics - Conferences

"Chronicles," K. M. Feodot'yev

"Iz Ak Nauk SSSR, Ser Geolog" No 3, pp 158-160

1. A general meeting was held 2 Feb 52 by the Dept of Geol and Geog Sci, Acad Sci USSR. Reports were read by V. A. Nikolayev, Corr Mem, Acad Sci USSR, and N. V. Frolov, Cand Geol-Mineralogical Sci on the geology of granites.
2. Results of 4th Conf on Exptl Mineralogy and Petrography, held 6 - 9 Feb 52 at Moscow; 47 reports were read.

PA 220T70

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CIA-RDP86-00513R000412910008-6

FEODOT'YEV, K. M.

"Conference on Experimental Mineradogy and Petrography," Vest. AN SSSR,  
22, No.4, 1952

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FEODOT'YEV, K. M.

"For Close Association of Science and Industry (Results of Workers' Conference  
of Experimental Mineralogy and Petrography)," Priroda, 41, No.5, 1952

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CIA-RDP86-00513R000412910008-6"

BELYANKIN, D.S., akademik; FEODOT'YEV, K.M., zamestritel' predsedatelya.

Resolutions. (In: Soveshchanie po eksperimental'noi mineralogii i petrografii. 4th, Moscow, 1952. Trudy, Moskva, 1953. No.2, p.4-6).  
(MLRA 7:3)

1. Predsedatel' Orgkomiteta (for Belyankin).  
(Mineralogy) (Petrology)

FEODOT'IEV, K.M.

Automatization of labor-consuming methods of thermal analysis.  
(In. Soveshchanie po eksperimental'noi mineralogii i petrografii.  
4th, Moscow, 1952. Trudy, Moskva, 1953. No.2:121-132).  
(MLRA 7:3)

1. Institut geologicheskikh nauk Akademii nauk SSSR.  
(Thermal analysis) (Mineralogy)

FEODOT'YEV, K.M.

D E S R

Natural and synthetic iron aluminum silicate hydrates.  
K. M. Feodot'ev and V. G. Starostina, *Voprosy Petrol. i Mineral., Akad. Nauk S.S.R.* 2, 223-7 (1953).—Described are the contexts of carboniferous limestones and Jurassic clay sediments of the Moscow Basin which show as decay products of pyrite nodules abundant jarosite, chalcocite (pyrite), and Al and Fe oxide hydrogels, associated with allophane among which an Fe halloysite and ferrallophane are characteristic. The differential-thermal curves of Fe allophane show dehydration at 100–190°, and a weak exothermic effect at 350° which corresponds to the reaction  $\gamma \rightarrow \alpha$   $\text{Fe}_2\text{O}_3$ . Weak exothermic effects are observed at 823° and 975° (indicating the nullification). On the differential-thermal curve of Fe halloysite the 2 endothermic effects are identical with those of common halloysite; the exothermic effects at 320° ( $\gamma \rightarrow \alpha$   $\text{Fe}_2\text{O}_3$ ), 910–930° (strong) and 1140–1150° are observed in Fe halloysite from the Vishnev Mts. and Kazakhstan. Fe halloysite is tubular in the electron-microscopic image; ordinary halloysite is lath-shaped. Synthetic expts. for the production of Fe Al

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silicate hydrates are successful only at low temps., by a reaction of an alk. silicate soln. with an acidic  $\text{AlCl}_3 + \text{FeCl}_3$  soln. in equivalent ratios  $\text{R}(\text{O})/\text{SiO}_2 = 1:2.5$ , and  $\text{Al}_2\text{O}_3/\text{Fe}_2\text{O}_3 = 0.10-1.07$ . The differential-thermal curves of the ppts. are nearly identical with those of Fe allophane and Fe hallysites of low  $\text{Fe}_2\text{O}_3$  contents, with their characteristic endo- and exothermic effects. Autoclaved samples (at 150 and 210°) show the crystn. of  $\text{Fe}_2\text{O}_3$  hydrates. The evidently high stability of  $\gamma\text{-Fe}_2\text{O}_3$  even under autoclave conditions (210°) is somewhat surprising; one may conclude that lepidocrocites are hydrothermal-secondary products in nature. Only at low temps. are the complex Fe Al silicate hydrates stable; a slight increase in temp. is sufficient to separate  $\text{Fe}_2\text{O}_3$ . The products low in  $\text{Fe}_2\text{O}_3$  show exothermic effects at 900° and 1100°; the higher the  $\text{Fe}_2\text{O}_3$  content the more pronounced in the autoclaved products are exothermic effects at 770°, and 1130-1180°, and even higher for  $\text{Fe}_2\text{O}_3$ -rich compns. (crystn. of cristobalite). W. Eitel

OSTROVSKIY, I.A.; BELYANKIN, D.S., akademik, glavnyy redaktor [deceased];  
OL'SHANSKIY, Ya.I., otvetstvennyy redaktor: ~~FRONOV, K.M.~~, re-  
daktor izdatel'stva, MAKHNI, Ye.V., tekhnicheskiy redaktor.

[Study of mineral formation in certain silicate melts under water  
vapor and hydrogen pressure] Issledovaniia po mineraloobrazovaniyu  
v nekotorykh silikatnykh rasplavakh pod davleniem vodianogo para  
i vodoroda. Moskva, Izd-vo Akademii nauk SSSR, 1956. 198 p. (Aka-  
demika nauk SSSR. Institut geologii rudnykh mestorozhdenii, pet-  
rografii, mineralogii i geokhimii. Trudy, no.1) (MLRA 9:11)  
(Systems (Chemistry)) (Magma)

PIXP, Boris Ivanovich; VIODAVETS, V.I., redaktor; FEODOT'YEV, K.M.,  
redaktor; MAKHNI, Ye.V., tekhnicheskiy redaktor.

[Klyuchevskaya Sopka and its eruption during 1944-1945 and  
in the past] Klyuchevskaya sopka i ee izverzheniya v 1944-  
1945 gg. i v proshlem. Moskva, Izd-vo Akademii nauk SSSR,  
1956. 308 p. (Akademii nauk SSSR. Laboratoriia vulkanologii.  
Trudy, no.11) (MIRA 9:6)

(Klyuchevskaya Sopka)

MIROPOL'SKIY, Leonid Mikhaylovich; SEMENTOVSKIY, Yu.V., redaktor; PEODOT'YEV,  
K.M., redaktor; MOSKVICHIEVA, N.I., tekhnicheskiy redaktor.

[Topogeochemical investigation of Permian deposits in the Tatar Republic]  
[Topogeokhimicheskoe issledovanie permeskikh otlozhenii v Tatarii.  
Moskva, Izd-vo Akademii nauk SSSR, 1956. 263 p. (MLRA 9:6)  
(Tatar A.S.S.R.—Geology, Stratigraphic)]

FEODOT'YEV, K.M.

MIROFOL'SKIY, L.M., professor, otvetstvennyy redaktor; FEODOT'YEV, K.M.,  
redaktor izdatel'stva; PAVLOVSKIY, A.A., tekhnicheskiy redaktor

[Petroleum and gas resources of the Ural and Volga provinces;  
proceedings of a conference on the petroleum and gas resources of  
the Ural and Volga regions (May 10-15, 1954)] Neftegazonosnost'  
Uralo-Volzhskoi oblasti: trudy soveshchania po probleme nefte-  
gazonosnosti Uralo-Povolzh'ia (10-15 maiia 1954 g.). Moskva, 1956.  
(MIRA 10:1)  
346 p.

1. Akademiya nauk SSSR. Kazanskiy filial.  
(Ural Mountain region--Petroleum geology)  
(Volga Valley--Petroleum geology)

FEODOT'YEV, K.M.  
KORZHINSKIY, Dmitriy Sergeyevich, akademik; OL'SHANSKIY, Ya.I., otvetstvennyy redaktor; FEODOT'YEV, K.M., redaktor izdatel'stva; SHEVCHENKO, G.N., tekhnicheskiy redaktor

[Physical and chemical principles for analyzing paragenesis of minerals] Fiziko-khimicheskie osnovy analiza paragenezisov mineralov. (Mineralogy)  
Moskva, Izd-vo Akad.nauk SSSR, 1957. 183 p. (MIRA 10:9)

FEODOT'YEV, K. M. and V. K. SHLEPOV

"Slat Solubility of Certain Elements in Supercritical Water Vapor" p. 230

~~"Synthesis and Structure of Hydrosilicates containing Simple and Complex Heavy Metal Cations."~~ p. 38

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscow, Izd-vo AN SSSR, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information and coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

FEODOT'YEV, K.M., otv.red.; SHLEPOV, V.K., red.izd-va; SHEVCHENKO, G.N.,  
tekhn.red.

[Materials on the geology of ore deposits, petrography, mineralogy,  
and geochemistry] Materialy po geologii rudnykh mestorozhdenii,  
petrografii, mineralogii i geokhimii. Moskva, Izd-vo Akad.nauk  
SSSR, 1959. 424 p. (MIRA 12:11)

1. Akademiya nauk SSSR. Institut geologii, rudnykh mestorozhdenii.  
petrografii, mineralogii i geokhimii.  
(Ore deposits)

FEODOTYEV, K.M.

Studies in the geochemistry of salts; geochemical diagrams of  
salt deposits. Trudy IGEM no.28:22-42 '59.  
(MIRA 13:4)

(Salts)

FEODOT'YEV, K.M.; KHVOSTOVA, V.A.

Thermal characteristics of muscovite samples from various zones of  
the pegmatite vein. Izv. AN SSSR. Ser. geol. 25 no.10:54-61 O '60.  
(MIRA 13:10)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii  
i geokhimii AN SSSR, Moskva.  
(Sayan Mountains--Muscovite--Thermal properties)

GINZBURG, I.I.; OL'SHANSKIY, Ya.I. [deceased]; BELYATSKIY, V.V.;  
Prinimali uchastye: NUZHDENOVSKAYA, T.S., laborant;  
ROZHDESTVENSKAYA, Z.S., laborant; KOZHINA, V.M., laborant;  
EEODOT'YEV, K.M., otv.red.; SHLEPOV, V., red.izd-va; LAUT,  
V.G., tekhn.red.

{Studies of experimental and technical petrography and mineralogy]  
Issledovaniia po eksperimental'noi i tekhnicheskoi petrografii i  
mineralogii. No.4: [Studies on oxidation of sulfides] Eksperi-  
mental'nye issledovaniia po okisleniiu sul'fidov. Moskva,  
Izd-vo Akad.nauk SSSR. 1961. 130 p. (Akademiiia nauk SSR.  
Institut geologii rudnykh mestorozhdenii, petrografii, mineral-  
ogii i geokhimii. Trudy, no.59) (MIRA 14:7)  
(Sulfides)

PEREL'MAN, Aleksandr Il'ich; FEODOT'YEV, K.M., kand.geol.-miner.nauk, otv.red.;  
MARKOV, V.Ya., red.izd-va; ASTAF'YEVA, G.A., tekhn.red.

[Migration processes of salts on the plains of eastern Turkmenia and  
western Uzbekistan in the Neogene; ancient soils of deserts in Central  
Asia] Protsessy migratsii solei na ravninakh Vostochnoi Turkmenii.  
Zapadnogo Uzbekistana v neogene; drevnie pochvy pustyn' Srednei Azii.  
Moskva, Izd-vo Akad. nauk SSSR. 1959. 108 p. (Akademija nauk SSSR.  
Institut geologii rudnykh mestrozhdennii, petrografii, mineralogii i  
geokhimii. Trudy, no.25) (MIRA 15:10)

(Soviet Central Asia—Salt deposits)  
(Soviet Central Asia--Soil chemistry)

FEODOT'YEV, K.M.

Professor J. Viard's lecture on results of mineralogical  
studies. Izv. AN SSSR. Ser.geol. 28 no.3:116-117 Mr '63.  
(MIRA 16:2)  
(Mineralogy)

FEODOT'YEV, K.M.; PRIKHID'KO, P.L.

Outline of the geochemistry of salts. Pt.2: Migration of salts in  
folded areas. Trudy IGEM no.99:147-153 '63. (MIRA 16:9)  
(Salt deposits) (Geochemistry) (Folds (Geology))

VINOGRADOV, A.P.; KORZHINSKIY, D.S.; SMIRNOV, V.I.; SHCHERBAKOV, D.I.;  
AYDIN'YAN, N.Kh.; VINOGRADOV, V.I.; VOL'FSOHN, F.I.; GENKIN, A.D.;  
DANCHEV, V.I., LUKIN, L.I.; OZEROVA, N.A.; PEREL'MAN, A.I.; REKHARSKIY,  
V.I.; SMORCHKOV, I.Ye.; FEODOT'YEV, K.M.; SHADLUN, T.N.; SHIPULIN, F.K.

Aleksandr Aleksandrovich Saukov, 1902-1964; obituary. Geol. rud. mestorozh.  
(MIRA 18:4)  
7 no.1:124-125 Ja-F '65.

SOV/84-59-10-25/53

1(  
AUTHOR:

Feofanov, A., Pilot

TITLE:

Equipment of the An-2 and Yak-12 Should Be Improved

PERIODICAL:

Grazhdanskaya aviatsiya, 1959, Nr 10, p 17 (USSR)

ABSTRACT:

Passengers and pilots flying the above named aircraft on Northern routes complain that the heating system is inadequate. At temperatures below -18°C, the windshield of the Yak-12 canopy becomes frosted over, which can be eliminated through the use of hot air from the aircraft heating system. The gasoline tank in the Yak-12 is too small, and should be replaced by a 250-liter tank.

Card 1/1

Feofanov A.F.

Zvonarev, S. M., and A. F. Feofanov

Primenenie teoremy o trekh momentakh pri raschete gorizonta'l'nogo opereniia.  
(Tekhnika vozdushnogo flota, 1940, no. 12, p. 43-47, tables, diagrs.)

Title tr.: Application of the three moment equation in the design of  
horizontal control surface.

TL504.Th 1940

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of  
Congress, 1955.

FEOFANOV, A.F.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 369 - I

BOOK

Author: FEOFANOV, A. F.

Full Title: CALCULATION OF THIN-WALLED CONSTRUCTION

Transliterated Title: Raschety tonkostennykh konstruktsiy

Publishing Data

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Publishing House: State Publishing House of the Defense Industry  
(Oborongiz)

Date: 1953

No. pp.: 224

No. of copies: Not given

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of Technical Science

Tech. Ed.: None

Editor-in-Chief: None

Appraiser: None

Others: Gratitude for valuable assistance is expressed to  
Professors Belyayev, V. N., Romashevskiy, A. Yu.,  
Rostovtsev, G. G., Cheremukhin, A. M., and to  
Dotsents Baykov, V. T. and Yelenevskiy, G. S.

Text Data

Coverage: This book contains examples of calculation of the general  
strength of thin-walled aviation constructions, especially  
of the prismatic reinforcedskin type, subject to torsion

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AID 369 - I

**Raschety tonkostennykh konstruktsiy**

and flexion. The calculations are carried out by the method of forces, and also by simplified methods proposed by the author. Diagrams, graphs, tables, etc.

This is a noteworthy compilation of calculation of thin-walled aviation constructions. No similar compilation has been found in American or British literature. A more detailed study is desirable to evaluate the novelty of the methods applied.

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## Raschety tonkostennykh konstruktsiy

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## Ch. V Calculation of Statically-Undetermined Systems

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14. Simplification of the calculation in case of symmetry
15. Examples of calculation of skin-covered frames
16. Calculation of circular frames
17. Comments on the choice of the basic system

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## Raschety tonkostennykh konstruktsiy

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Raschety tonkostennykh konstruktsiy

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32. Multi-stringer boxes with transversal plane of symmetry
33. Multi-stringer boxes without transversal plane of symmetry
34. Multi-stringer skins with curved line sections
35. Determination of stresses in the region of cut-outs at a larger quantity of closed sections from both sides
36. Multi-stringer skin
37. Case of application of external forces in the region of a cut-out
38. Problems for exercise

Purpose: A textbook for engineers designing aviation thin-walled constructions. It may be also used by students of aviation institutions of higher learning.

Facilities: None

No. of Russian and Slavic References: 4 before 1939, and 3 after this date

Available: A.I.D., Library of Congress.

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FEOFANOV, A. F.

"General Strength of Thin-Walled Constructions," a dissertation defended by A.F. Feofanov for the degree of Candidate of Technical Sciences on 20 May 1953 at the Moscow Order of Lenin Aviation Institute im. S. Ordzhonikidze (Moskovskiy Ordena Lenina Aviatsionnyy Institut imeni Sergo Ordzhonikidze), Vechernaya Moskva No 107, 8 May 53, p. 4.

PHASE I BOOK EXPLOITATION

1115

Feofanov, Aleksey Feofanovich

Stroitel'naya mekhanika tonkostenniyh konstruktsiy (Structural Mechanics of Thin-walled Structures) Moscow, Oborongiz, 1958. 329 p. 4,000 copies printed.

Reviewers: Rudnykh, G.N.; Adadurov, R.A.; Kiselev, V.F.; and Frolov, V.M., Candidates of Technical Sciences; Ed.: Mar'in, V.A., Candidate of Technical Sciences, Docent; Ed. of Publishing House: Sheynfayn, L.I.; Tech. Ed.: Zudakin, I.M.; Managing Ed.: Sokolov, A.I., Engineer.

PURPOSE: This book is intended for engineers engaged in the design of aircraft structures and may be useful for senior students of aeronautical vuzes.

COVERAGE: The book presents the theory of the design of fuselage and wing structures and given examples of such design. Calculations are performed by the method of forces and by V.Z. Vlasov's variation method, as well as by simplified methods developed by the

Card 1/9

## Structural Mechanics (Cont.) 1115

author. The foreword is written by Professor A.Yu. Romashevskiy. The author thanks the following persons for cooperation and help in preparing the book: R.A. Adadurov, L.I. Balabukh, Van De-Zhun, V.Z. Vlasov, V.F. Kiselev, D.N. Kurguzov, V.A. Mar'in, A.Yu. Romashevskiy, G.G. Rostovtsev, G.N. Rudykh, I.A. Sverdlov, V.M. Frolov, Ye. Fun-pey, Gon Ia-nan, Tazu De-Tszao, Dzhan Di-kan, and L.A. Aleksandrova, engineer. There are 51 references, of which 50 are Soviet and 1 is English.

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AVAILABLE: Library of Congress

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2-9-59

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L 31ATI-65 EWT(c)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T-2/EWP(k)/EWA(h) Pf-4 Feb EM  
ACCESSION NR AM2016726 BOOK EXPLOITATION S/ 38

Fofanov, Aleksey Fofanovich

Aircraft structural mechanics (Stroitel'naya mehanika aviationskikh konstruktsiy), Moscow, Izd-vo "Mashinostroyeniye", 1964, 283 p. illus., bibliogr. Errata slip inserted. 4,750 copies printed. (At head of title: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR) Series note: Moscow. Aviationskyy institut. Trudy, vyp. 160

TOPIC TAGS: aircraft structure, shell theory, thermal stress, aerodynamic heating

PURPOSE AND COVERAGE: This book is devoted to problems of structural mechanics and methods of calculating modern statically determinate and indeterminate aviation structures consisting of rods, thin walls, and shells. The variation methods and methods of finite differences used to calculate such structures are examined. Engineering methods of calculating continuous wings and fuselages of flying craft with large cutouts are included. A special section contains methods of calculating structures serving at high temperatures as a result of their kinetic heat. At the end of the book there is a table of the units of measure that are used. The book is intended for engineers working

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not only in aviation, but in other fields of machine building and can also be used by students in aviation higher educational institutions.

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calculate the stresses of cylindrical shells  
... I. S. KANTOROVICH - Vlasov shell ...

Bibliography -- 280

SEARCHED: 25Apr64

SUB CODE: AC

NO REF Sov: 030

OTHER: 007

Card 3/3

FEOFANOV A.P.

OKHRIMENKO, I.S.; FEOFANOV, A.P.

Method for determining the decomposition temperature of high polymers.  
(MIRA 10:6)  
Zav. lab. 23 no.3:333-335 '57.  
(Polymers) (Rubber) (Pyrolysis)

ACCESSION NR: AR4042162

S/0196/64/000/005/B020/B020

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. 5B86

AUTHOR: Kazarnovskiy, D. M.; Konstantinova, V. P.; Feofanov, B. N.

TITLE: Nonlinear properties of triglycine sulfate

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vy\*p. 51, 1963, 242-251

TOPIC TAGS: triglycine sulfate, nonlinear property, ferroelectric capacitor

TRANSLATION: Experimental ferroelectric capacitors were prepared from large single crystals of triglycine sulfate  $(\text{NH}_2\text{CH}_2\text{COOH})_3\text{H}_2\text{SO}_4$  obtained from an aqueous solution by lowering the temperature from 50 to 25°C with reversible mixing. On thin plates of rectangular shape, Y-cuts of the crystal were applied by the method of evaporation of gold electrodes in a vacuum. The polar axis was the Y axis. Nonlinearity of saturation

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ACCESSION NR: AR4042162

$$N_{sat} = \frac{\epsilon_{d,max}}{\epsilon_{d,min}},$$

where  $\epsilon_{d,max} = \left(\frac{dD}{dE}\right)$  is maximum dynamic permeability;  $\epsilon_{d,min}$  is minimum dynamic permeability. Another criterion of estimating nonlinearity is integral nonlinearity.

$$N_{int} = \int_0^{\epsilon_{d,max}} \left| \frac{dD}{dE} \right| dE.$$

The value of  $N_{sat}$  for BK1 is 3.3, for BK2 - 8, for triglycine sulfate - 222; value of  $N_{int}$  for BK1 is  $1.5 \cdot 10^4$ ; for BK2 -  $4.8 \cdot 10^4$ , for triglycine sulfate -  $32 \cdot 10^4$ . Thus, with different methods of estimation, triglycine sulfate has higher nonlinear properties than ceramics VK1 and VK2. The even harmonics in the chain with triglycine sulfate have linear sections and, with the known value of the displacing field, pass through the maximum. An even harmonic of current in the maximum can significantly exceed a current of basic frequency. Position and magnitude of the indicated maximum depend not only on the displacing field, but

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ACCESSION NR: AR4042162

also on the variable field of excitation. Significant inertness is observed in the processes of polarization under the conditions of the experiment at a basic frequency of 500 cps. Twenty-three illustrations. Bibliography: 2 references.

SUB CODE: IC, EC ENCL: 00

Card 3/3

S/193/62/000/004/003/008  
A004/A101

AUTHOR:

Feofanov, D. V.

TITLE:

Model ПМ 10 (PM 10) press for die-forging railroad switch points

PERIODICAL: Byulleten' tekhniko-ekonomiceskoy informatsii, no. 4, 1962, 20-21

TEXT: By the technical assignment of the Novosibirskiy strelochnyy zavod (Novosibirsk Switch Plant), the Plant im. Yefremov has developed and manufactured in 1961 the PM10 press of 10,000 tons capacity for die forging wide-gage switch points from type P 65 (R65) rails. This press is of a vertical four-column design with top pressure and has one main and two reversing cylinders. It is equipped with a pressure booster - a multiplier which makes it possible to create a superhigh pressure (1,250 at) in the main cylinder hollow, which ensures a maximum pressing force of 10,000 tons. The press is equipped with an auxiliary mechanism for lifting the upper cross arm if the main cylinder packing ring needs replacing. The press is driven by a НПР 200 (NPR200) rotary plunger pump adjusted for operation at 170 at pressure and having a capacity of 200 l/min, and by two 3III-250 (ESH-250) gear pumps of 7 at pressure and 250 l/min capacity. The following technical data are given: output - 10 switch points/hour; table

Card 1/2

Model ПМ 10 (PM 10) press ...

S/193/62/000/004/003/008  
A004/A101.

stroke - 2,100 mm; table size - 1,700 x 2,000 mm; table travel speed - 260 mm/sec; open die height - 2,000 mm; number of working cylinders - 2; number of boosting stages - 3; force developed by the press at a fluid pressure of 20 at without multiplication and 100 and 200 at with multiplication - 1,500, 5,000 and 10,000 tons respectively; full slide block stroke - 500 mm; slide block working stroke - 60 mm; slide block lifting speed - 160 mm/sec; slide block working stroke speed: at 10,000 tons pressure - 4.5 mm/sec; at 1,500 tons pressure - 10 mm/sec; power of motors - 522 kW; height of press over the floor level and total height - 8,870 and 13,170 mm; overall dimensions in the plane - 7,350 x 5,400 mm; overall dimensions of pump station (length x width x height) - 8,200 x 7,200 x 3,200 mm; weight - 435 tons. The press permits an eccentric (up to 350 mm) load of up to 5,000 tons to make possible die-forging in a three-groove die heating the switch point only once.

Card 2/2

FEOFANOV, G. N. and VYAZEMSKIY, V. O.

"Transitron Oscillator", Sb. Tr. Stud. Nauch. Obshch. Leningrad.  
Elektrotekhn. Inst., No 1, 1953, pp 29-38.

A schematic diagram for obtaining the transitron characteristic on an oscillator screen, i. e., the dropping section of a pentode characteristic is described. A method of increasing the slope of the transitron characteristic by means of feedback coupling of the anode to the control grid of the tube is pointed out. The dependence of the frequency on the control grid voltage is used for frequency modulation. (RZhFiz, No 1, 1955)  
SO: Sum. No. 443, 5 Apr. 55

J-4

FEOFANOV, G.N.

USSR / Acoustics. Ultrasound

Author : Ref Zhur - Fizika, No 5, 1957, No 12707

Inst : Leningrad University, USSR

Title : Differential Method for Measuring Absorption of Ultrasonic Waves in Liquids.

Orig Pub : Akust. zh., 1956, 2, No 2, 194-198

Abstract : Description of a method for measuring small changes in the coefficient of absorption of ultrasonic waves in liquids. The measured liquid is placed in two cuvettes, one working and the other reference. Ultrasonic pulses of equal magnitude and duration are radiated by two quartz vibrators into the liquid contained in these two cuvettes. The ultrasonic pulses,

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changes for some  
the point of the trans-  
proportional to the dif-  
the two cuvettes. Experi-  
of the ultrasonic path of, for exam-  
ent causes a current of 1 ma to flow  
instrument circuit.

USSR/Fitting Out of Laboratories - Instruments.  
Their Theory, Construction, and Use.

H-

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8681

Author : Mikhaylov, I.G., Feofanov, G.N.

Inst :

Title : A Differential Method for Measuring the Absorption of  
Ultrasonic Waves in Liquids.

Orig Pub : Akust. zh., 1956, 2, No 2, 194-198

Abstract : A differential method has been developed for measuring  
small differences in the absorption coefficients ( $\Delta \alpha$ )  
of ultrasonic waves in liquids. Two similar piezoelectric  
crystals are used to radiate ultrasonic high-frequency  
impulses of equal intensity and duration in a liquid.  
These impulses are propagated in two cells, the reference  
cell and the test cell, and after reflection from the op-  
posing cell wall are received by the same piezoelectric  
crystals, amplified, and detected. The difference in the

Card 1/2

USSR/Fitting Out of Laboratories - Instruments.  
Their Theory, Construction, and Use.

H-

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8681

intensities of the ultrasonic impulses is measured with an indicating instrument connected to the output of the receiver circuit. A reduction in the noise level produced by heat currents is achieved by the careful thermostating of the cells. The accuracy of the measurements of  $\Delta\alpha$  with the apparatus described is 3-5%. The described method has been applied to the determination of the dependence of  $\Delta\alpha$  on the temperature and on the concentration of samples of quartz sand.

Card 2/2

FEOFANOV, G. N.

R "Measurement of Velocity of Propagation of Ultrasonic Waves in Liquids using  
the Method of Pulse Interferometry,"

report presented at the Seminar on Physics, Application of Ultrasound, 23-26  
Oct '57.

Leningrad Electro-Tech. Inst., Leningrad.

FEOFANOV, G.N.

USSR / Acoustics. Ultrasound

J-4

Obs Jour : Ref Zhur - Fizika, No 5, 1957, No 12707

Author : Mikhaylov, Z.G., Feofanov, G.N.

Inst : Leningrad University, USSR

Title : Differential Method for Measuring Absorption of Ultrasonic Waves in Liquids.

Orig Pub : Akust. zh., 1956, 2, No 2, 194-198

Abstract : Description of a method for measuring small changes in the coefficient of absorption of ultrasonic waves in liquids. The measured liquid is placed in two cuvettes, one working and the other reference. Ultrasonic pulses of equal magnitude and duration are radiated by two quartz vibrators into the liquid contained in these two cuvettes. The ultrasonic pulses,

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J-4

USSR / Acoustics. Ultrasound

Abs Jour : Ref Zhur - Fizika, No 5, 1957, No 12707

: reaching the opposite walls of the cuvettes, are reflected and are received by the same quartz plates, amplified, and detected. The receiver circuit is such that it is possible to measure by means of a meter the difference of the intensities of the reflected ultrasonic pulses. If the same pure liquid having the same temperature is located in both cuvettes, the difference in intensities of the received signals will be zero.

If the absorption in the working cuvette changes for some cause, the equilibrium is disturbed and the point of the instrument shows a certain deflection, proportional to the difference in the absorption between the two cuvettes. Experience has shown that at a length of acoustic path of, for example, 9 cm (double wall of cuvette), a difference  $\Delta\alpha = 0.01 \text{ cm}^{-1}$  in the absorption coefficient causes a current of 1 ma to flow in the instrument circuit.

Card : 2/2

FECHENOV, G.N.

MIKHAYLOV, I.G.; SAVINA, L.I.; PROFANOV, G.N.

Sound velocity in concentrated solutions of strong electrolytes  
and their compressibility [with summary in English]. Vest. IgU  
12 no.22:25-42 '57. (MIRA 11:2)  
(ultrasonic waves) (Electrolytes)

FEOFANOV, G.N.

AUTHORS: Mikhaylov, I. G., Savina, L. I., Feofanov, G. N. 514-4-5/20

TITLE: Speed of Sound and Compressibility of Strong Electrolyte Concentrated Solutions (Skorost' zvuka i szhimayemost' kontsentrirovannykh rastvorov sil'nykh elektrolitov).

PERIODICAL: Vestnik Leningradskogo Universiteta Seriya Fiziki i Khimii, 1957, Vol. 22, Nr 4, pp. 25-42 (USSR).

ABSTRACT: The ultrasonic velocity in aqueous salt solutions has been measured by an ultra sonic interferometer. An ultra sonic velocity of 1182.2 m/sec. at 20°C in pure water has been found, as against 1557.0 m/sec. at 73.5°C. The water represents an exceptional case as compared with the measurements in salt solutions, for at all the other liquids examined the ultrasonic velocity goes steadily down at a rising temperature. The specific physical properties of the water are attributed to the specific properties of its structure. The ions introduced into the water by the solution of the salts destroy the normal structure of the dipole molecule of the water by the strong effect of the elector static fields the more the higher the salt concentration, thus also the position of the maximum of the ultrasonic velocity ought to change. The examinations show, that with all solutions the maximum moves more or less to

Card 1/2

Speed of Sound and Compressibility of Strong Electrolyte 54-5/29  
Concentrated Solutions

range of lower temperatures. The concentration dependence of the ultrasonic velocity depends on the molecular weight of the salt, as well as on the rate of influence of the cations and anions upon the structure of the solution.

This study has been carried out in the ultrasonic laboratory of the branch for molecular physics of the faculty of physics at the Leningrad State University.

There are 7 figures, 14 tables, and 7 references, 4 of which are Slavic.

SUBMITTED: March 29, 1957.

AVAILABLE: Library of Congress.

Card 2/2

FEOFANOV, G. N.

"A Precision Pulse Method of Ultrasound Velocity and Attenuation Measurement  
in Liquids."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - <sup>4</sup> Jun 58.

BOGUSLAVSKIY, M.G.; MARENINA, K.N.; FEOFANOV, G.N.

Ultrasonic apparatus for controlling pulp concentration.  
Bum. prom. 33 no.12:10-13 D '58. (MIRA 11:12)  
(Ultrasonic waves—Industrial applications)

67467

SOV/146-2-4-7/19

96 24.1800

AUTHOR: Feofanov, G.N.

TITLE: A Simple Pulse Installation for Measuring the Velocity and Absorption of Ultrasonic Waves in Liquids

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1959, Nr 4, pp 57-62 (USSR)

ABSTRACT: This is a description of the design and performance of a simple pulse installation for measuring with a high accuracy the velocity and absorption of ultrasonic waves in liquids, developed and tested at the Laboratory of the Leningrad State University. The block diagram (Figure 1) of the device is given, and the measuring method, which can be called "phasing method" is explained. The installation consists of a main pulse generator, one absorbing-radiating quartz, a super-heterodyne receiver in which the pulse is amplified

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67467

SOV/146-2-4-7/19

A Simple Pulse Installation for Measuring the Velocity and Absorption of Ultrasonic Waves in Liquids

and detected after having passed through the medium under test, an oscilloscope with a driven sweep, and a standard signal generator. The absorption and velocity of sound are measured in a series of liquids, and the results are compared with those obtained by the ordinary ultrasonic interferometer. The two sets of results coincide to within 0.3 microseconds. When the attenuator is fully used, the inaccuracy of absorption measurements does not exceed 5%. The author thanks Laboratory Supervisor I.G. Mikhaylov for his assistance. This article was recommended by the Kafedra molekulyarnoy fiziki (The Chair of Molecular Physics). There are 1 diagram and 8 references, 3 of which are English, 1 German, and 4 Soviet.

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Card 2/3

67467  
SOV/146-2-4-7/19

A Simple Pulse Installation for Measuring the Velocity and Absorption of Ultrasonic Waves in Liquids

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni  
A.A. Zhdanova (Leningrad State University imeni  
A.A. Zhdanov)

14

SUBMITTED: February 10, 1959

Card 3/3

FEOFANOV, G.N.

#5

PHASE I BOOK EXPLOITATION SOV/5644

Vserossiyskaya konferentsiya professorov i prepodavateley pedagogicheskikh  
institutov

Primeneniye ul' traakustiki k issledovaniyu veshchestva. vyp. 10. (Utilization  
of Ultrasonics for the Investigation of Materials. no. 10) Moscow, Izd-vo  
MOPI, 1960. 321 p. 1000 copies printed.

Eds.: V. F. Nozdrev, Professor, and B. B. Kudryavtsev, Professor.

PURPOSE: This book is intended for physicists and engineers interested in  
ultrasonic engineering.

COVERAGE: The collection of articles reviews present-day research in the  
application of ultrasound in medicine, chemistry, physics, metallurgy, ce-  
ramics, petroleum and mining engineering, defectoscopy, and other fields.  
No personalities are mentioned. References accompany individual articles.

Card 440

Utilization of Ultrasonics (Cont.)

SOV/5644

Zolotova, A. I. [In-t pishchevoy tekhnologii AMN SSR -  
Institute of Foods Technology AMS USSR]. Study of the  
Effect of Ultrasonic Waves on Some Food Products of  
Plant Origin

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Mikhaylov, I. G., L. I. Savina, and G. N. Feofanov [Leningr.  
gos. in-t - Leningrad State University]. The Problem of  
Ultrasonic-Wave Absorption in Ethyl Acetate

215

Glinskiy, A. A. [MOPI im. Krupskoy - Moscow Oblast Poly-  
technical Institute imeni Krupskaya]. The Width of First-  
Order Spectra Arising During the Diffraction of Light in  
Damping Ultrasonic Waves of Low Intensity

235

Adkhamov, A. A. [Tadzhiksk. gos. in-t - Tadzhik State  
University]. The Dispersion of Sound in Liquids

243

Card 8/10

LUKASHENKO, E.Ye.; ZINOV'YEVA, N.K.; TEREKHIN, V.P.; FEOFANOV, L.P.

Mechanism of the thermochemical reduction of magnesium and the formation of titanium sponge in industrial reactors. Titan i ego splavy no.6:14-20 '61. (MIRA 14:11)  
(Titanium--Metallurgy)

L 7998-66 EMT(m)/EPA(n)-2/EPE(n)-2/END(t)/EMP(b) IJP(c) JD/WN/JG  
ACC NR: AP5026531 SOURCE CODE: UR/0286/65/000/019/0071/0071

AUTHORS: Zuyev, N. M.; Tsenter, Ya. A.; Vaynshteyn, G. M.; Vlasov, V. A.; Ustinov,  
V. S.; Kisselov, O. G.; Maslennikov, I. P.; Feofanov, L. P.; Sharunova, O. M.

Vukolov, V. V.; Ivanov, A. B.

ORG: none

TITLE: A mixer furnace for remelting the condensate from titanium production.  
Class 40, No. 175229 [announced by All-Union Scientific Research and Design Institute  
of Aluminum, Magnesium, and Electrode Industry and by Dnieper Titano-Magnesium Plant  
(Vsesoyuznyy nauchno-issledovatel'skiy i proektchny institut aluminiirovoy, magniyevoj  
i elektrodnoy promyshlennosti i Dneprovskiy titano-magniyevyy zavod)]

SOURCE: Byulleten' isobreteniij i tovarnykh znakov, no. 19, 1965, 71

TOPIC TAGS: physical metallurgy, metallurgic furnace, metallurgic industry, titanium

ABSTRACT: This Author Certificate introduces a mixer furnace for remelting the  
condensate from titanium production. The furnace consists of a melting chamber  
connected by a duct in its lower part to a mixer forehearth, and of electrodes for  
melting an inert salt (see Fig. 1). To simplify the process and to reduce the losses  
of magnesium and magnesium chloride, the mixer is provided with a suspended metallic  
cap for collecting liquid magnesium and for protecting it from reacting with gases and  
the lining. A liquid seal secures excess pressure of inert gas (argon) over the melt

UDO: 669.721.411:621.745.35

Card 1/2

L 7998-66  
ACC NR: AP5026531

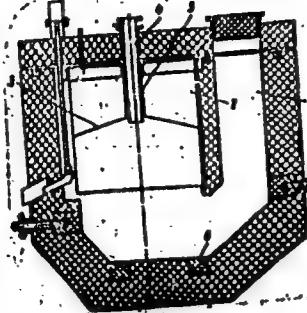


Fig. 1. 1- melting chamber;  
2- mixer forehearth;  
3- suspended metallic cap;  
4- pipe for drawing off  
magnesium; 5- liquid  
seal; 6- auxiliary  
electrodes

during discharging of the charge and removing the molten products. The bottom of the bath is provided with auxiliary electrodes for preventing the formation of crust.  
Orig. art. has: 1 figure.

SUB CODE: IR/

SEARCH DATE: 16 March

nm  
Card 2/2

TEOFANOV, M.P. (Moskva)

Use of prepositions in children's speech [with summary in English].  
Vop. psichol. 4 no. 3:118-124 My-Je '58 (MIRA 11:8)  
(SPEECH)  
(RUSSIAN LANGUAGE—PREPOSITIONS)

FEOFANOV, N.A., red.; KRISHTAL', L.I., red.

[Computer technology in railroad transportation] Vychisli-tel'naia tekhnika na zheleznodorozhnom transporte. Moskva, Transport, 1965. 215 p. (MIRA 18:12)

L 25556-66 EWT(d)/EWP(h)/EWP(l)

ACC NR: AM6004762

Monograph

UR:

49  
43

R+1

Feofanov, N. A., ed.

Computer engineering in railroad transportation (Vychislitel'naya tekhnika na zhelezno-dorozhnom transporte) Moscow, Izd-vo "Transport", 1965. 215 p. illus., tables. 5,000 copies printed.

TOPIC TAGS: railway rolling stock, data processing, computer application, railway network, economic organization/EV80-3m, T-5MU

PURPOSE AND COVERAGE: The purpose of the book is to acquaint a large group of engineering and bookkeeping workers with the status, development, and problems of mechanization of transportation accounting and to render help to them in problems involving the use of computer techniques. It consists of a series of articles tracing the development of mechanization and automatization of statistical and bookkeeping document processing by means of computer techniques, and their economic effectiveness. It is devoted essentially to mechanization of accounting operations through the use of punched cards, mechanical computers, electronic computers, and tabulators, in the processing of statistical data on freight and passenger transport, allocation of the income from these sources, and the deployment of the rolling stock. Other problems dealt with are the organization of mechanized labor cost accounting, mechanization of ticket-office operations in large passenger stations, and experience in the use of the latest electronic-computer devices for accounting of freight traffic and passenger traffic. The articles on the operation of electronic computers are designed also for specialists on computer programming in other organizations.

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UDC: 656.2 - 50.581.14

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ACC NR: AN6004762

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A. A. Puzina, Experience in operating the electronic multiplying attachment with T-5MU tabulator in the mechanized divisions of the Ministry of Communications -- 170	
T. M. Khokhlova, Mechanization of ticket-office operations in railway stations -- 198	

SUB CODE: 13, 05/ SUBM DATE: 07Sep65

Card 2/2 FW

1005/0096

SOURCE CODE: UR/0413/66/000/013/0095//\*\*

ACC NR: AP6025645

INVENTOR: Feofanov, N. I.; Cheryukanov, A. S.

ORG: None

TITLE: A method for determining the deviation from conical similarity in the blades of lifting rotors on helicopters. Class 42, No. 183449

SOURCE: Izobreteniya, promyshlennye obraztsy, tovarnyye znaki, no. 13, 1966, 95-96

TOPIC TAGS: helicopter rotor, photomultiplier, measuring instrument

ABSTRACT: This Author's Certificate introduces a method for determining the deviation from conical similarity in the blades of lifting rotors on helicopters. The procedure is designed for improving the reliability, accuracy and possibility of determining deviation from conical similarity on the ground and in flight under any type of illumination. The ends of the rotating blades are projected onto the cathode in a photomultiplier with an automatic slit diaphragm shutter. The pulses at the output from the photomultiplier are compared with pulses produced when the at the slit is completely covered by the projections of the rotating blades of the helicopter rotor to give the degree of deviation from conical similarity.

UDC: 620.178 629.13.01/06

Card 1/2

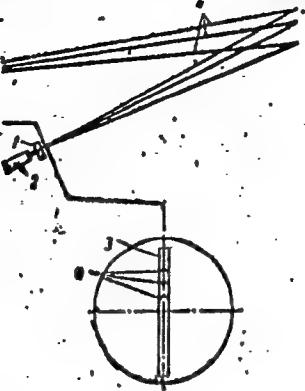
1-0  
SUB C

Card 2/2

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R0004129100

ACC NR: AP6025645



1—optical system; 2—photomultiplier; 3—slit with diaphragm; 4—rotor blades

SUB CODE: 01, 14/ SUBM DATE: 02Apr65

Card 2/2

LEPIKHIN, L.A., inzh.; Prinimali uch. stiye: STEFANOVICH, M.A., doktor tekhn.nauk; BABARYKIN, N.N., kand.tekhn.nauk; NEYASOV, A.G., kand.tekhn.nauk; SHPARBER, L.Ya., inzh.; BOGDANOV, V.V., inzh.; ZHARKOV, P.N., master pechi; PANIN, O.G., master pechi; FEDOTOV, V.G., master pechi; FEOFANOV, N.M., master pechi; SAGAYDAK, I.I., inzh., rukovoditel' raboty

Evaluating the effect of various methods of charging a blast furnace on the state of the gas flow in its upper part. Stal' 23 no. 3:198-204 Mr '64. (MIRA 17:5)

1. Magnitogorskiy metallurgicheskiy kombinat (for Lepikhin).

SINDEYEV, P.R.; FEOFANOV, V.A.

Automating jet piercing. Trudy Alt. GMNII AN Kazakh. SSR 15:115-122  
'63. (MIRA 17:3)

L 5191-65 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k)/EWA(h)/ETC(m) WW/EM  
ACC NR: AP5025064 SOURCE CODE: UR/0286/65/000/016/0108/0108

AUTHORS: Medvedev, V. V.; Feofanov, V. A.; Mitin, I. I.

ORG: none

52  
B

TITLE: Ultrasonic hydrodynamic emitter. Class 42, No. 174017

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 108

TOPIC TAGS: ultrasonic equipment, hydrodynamic shock, nozzle

ABSTRACT: This Author Certificate presents an ultrasonic hydrodynamic emitter of the vortex type, following that of Author Certificate No. 161980. To increase the intensity of the elastic oscillations at large distances from the exit nozzle and to generate electrohydrodynamic shocks in the body of the emitter, a central electrode is added to the equipment. The nozzle serves as the second electrode for the emitter (see Fig. 1).

Card 1/2

UDC: 534.232:532.595.2

090/0771

L 5191-66

ACC NR: AP5025064

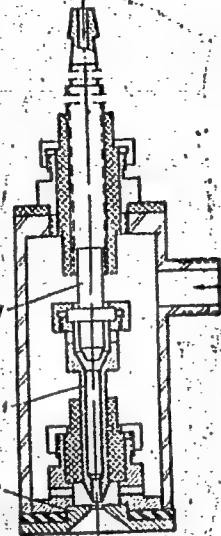


Fig. 1. 1-central electrode; 2-nozzle

Orig. art. has: 1 figure.

SUB CODE: IE/

Card 2/2 *ked*

SUBM DATE: 16Jul64

COUNTRY : USSR R  
CATEGORY : Diseases of Farm Animals. Diseases Caused by Helminths  
ABS. JOUR. : RZhBiol., No. 6 1959, No. 25991  
AUTHOR : Tret'yakova, O. N.; Feofanova, A. A.  
INST. : Bashkir Agricultural Institute  
TITLE : Histological Changes of the Eye of the Horse in Thelaziasis. Preliminary Report  
ORTG. PUB. : Tr. Bashkirsk. s.-kh. in-ta, 1957, 8, No 2, 441-443  
ABSTRACT : In thelaziasis of horses, destructive and inflammatory changes take place in the conjunctiva. Also, inflammatory changes are observed in the cornea, which lead to the development of ulcers with their subsequent cicatrization; in individual cases, melanosis may be observed in the cornea in the cicatricial area. An inflammatory process develops in the lacrimal glands, leading

CARD: 1/2

21

COUNTRY	:	R
CATEGORY	:	
ABS. JOUR.	:	RZhBiol., No. 6 1959, No. 25991
AUTHOR	:	
INST.	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT cont'd.	:	to sclerosis. Tholazine localize in the lumen of the lacrimal tubules. Invading the eye, Tholaziae produce in it deep, pathological changes which not infrequently result in complete loss of vision and disability of the horse.-- From the authors' summary.
CARD:	2/2	

ZHUKHIN, V.A., prof., sasluzhennyj d'yatel' nauki BASSR; FEOFANOVA, A.A.,  
kand.med.nauk

Work of the Ufa Society of Pathoanatomists and Specialists in  
Forensic Medicine during the period 1954-1956. Arkh.pat. 20 no.1:  
84-87 '58. (MIRA 13:12)

1. Predsedatel' Pravleniya Nauchnogo meditsinskogo obshchestva patolo-  
goanatomov i sudebnykh medikov g. Ufy (for Zhukhin). 2. Uchenyy  
sekretar' Nauchnogo meditsinskogo obshchestva patologoanatomov i  
sudebnykh medikov g.Ufy (for Feofanova).

(UFA—PATHOANATOMICAL SOCIETIES)

FEOFANOVA, L.M. Deceased

● Organic Chemistry See ILC

EOFANOV, N., inzh.

Using computers on railroads. MTO 2 no.8:17 Ag '60.

(MIRA 13:10)

(Electronic calculating machines)  
(Railroads--Equipment and supplies)

FEOFANOVA, N.D.

Feofanova, N.D., Yarovizatsiya Ozimyka Zlakov Pri Otritsatel'nykh Temperaturakh. Sbornik Trudov Pushkinsk. Laboratorii Vsesoyuz. In-ta Rasteniyevodstva. L., 1949, S. 131-41.-Bibliogr: S 140-41  
SO: Letopis No. 30, 1949

FEOFANOVA, N. D.

27235. FEOFANOVA, N. D. - Sortovye razlichiya v ozimykh zlakov pri yarovizatsii v usloviyakh temperatur. Doklady akad. Nauk sssr, novaya seriya, t. LXVII, No. 1, 1949, s. 181-84. -Bibliogr: 5 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

PEKAROVA, N. D.

PA 2/50T1d

USER/Biology - Grain, Winter  
Rye

Sep 49

"Type Differences of Winter Grains During Vernalization Freezing Temperatures," N. D. Pekarova, All Union Inst of Plant Culture, Acad Agr Sci imeni V. I. Lenin, 4 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LXVIII, No 1

Selected types of winter rye and wheat having different geographical derivation and different length of vernalization stage. Found that phylogensis of a given culture or type has marked effect on its ability to vernalize at freezing temperatures and on its lower temperature limit. Found that ease with which a given sort passed through vernalization at minus temperatures was not a direct function of length of vernalization stage. Submitted by Acad N. N. Maksimov 18 Jun 49

Abelset W-12835, 18 Aug 50

2/50T1d

FEOFANOVA, N.D.; OPARIN, A.I., akademik.

Biology of the development of *Licopersicum hirsutum*. Dokl. AN SSSR 90 no.  
4:685-687 Je '53. (MLRA 6:5)

1. Akademiya Nauk SSSR (for Oparin). 2. Vsesoyuznyy nauchno-issledovatel'-  
skiy institut rasteniyevodstva (for FEOFANOVA). (*Licopersicum hirsutum*)

FEOFANOVA, N. D.

USSR/Biology - Plant Physiology

Card : 1/1

Authors : Feofanova, N. D.

Title : Relation between the breathing intensity and germination of seed and the conditions of their reproduction

Periodical : Dokl. AN SSSR, 96, Ed. 4, 853 - 856, June 1954

Abstract : The basic factor determining the breathing intensity and the life period of seeds in agrometeorological state in which the plants grow and develop, is outlined. Twelve references. Tables.

Institution : All-Union Scientific-Research Institute of Plant Development

Presented by: Academician A. L. Kursanov, March 23, 1954

Country : USSR

M

Category: Cultivated Plants. General Problems.

Abs Jour: RZhBiol., No 11, 1958, 48826

Author : Feofanova, N.D.

Inst : All-Union Plant Cultivation Institute. All-Union  
Acad. of Agricultural Sciences im. V.I. Lenin

Title : Application of Radioactive Phosphorus in the Evalua-  
tion of Cold-Hardiness in Varieties.

Orig Pub: Byul. Vses. in-ta rasteniyevodstva. VASKNIL, 1956,  
No 2, 14-17

Abstract: Studies at the Laboratory of Plant Physiology of  
the All-Union Plant Cultivation Institute covered  
the intensity of phosphorus uptake in relation to  
the temperature of the nutritive solution and the

Card : 1/3

Country : USSR  
Category: Cultivated Plants. General Problems.

M

Abs Jour: RZhBiol., No 11, 1958, 48826

frost resistance of the variety. The experiments were conducted on water cultures with the use of radioactive phosphorus  $P^{32}$  on different varieties of spring and winter wheat, winter and spring vetch, clover, lentil, corn and potatoes. At low temperatures, the absorption of P proceeded less intensely than at high temperatures. At a temperature of 8-10° the sprouts of Kolkhoznitsa winter wheat absorbed one half of the  $P^{32}$  taken up at a temperature of 16-18°. When the temperature was lowered, the decrease in the intensity of P uptake was greater in the case of the spring varieties than in the case of winter varieties. The intensity of the absorption of  $P^{32}$  at lowered temperature corresponded to the frost resistance of

Card : 2/3

M-4

Country : USSR  
Category: Cultivated Plants. General Problems.

M

Abs Jour: RZhBiol., No 11, 1958, 48826

the varieties. Similar results were obtained in the experiments with other cultures, with the exception of the potato. The determination of the frost resistance of a series of cultures can be carried out approximately with the aid of tagged phosphorus by means of the determination of the intensity of its absorption at lower temperatures. -- G.N. Chernov

Card : 3/3

Feofanova, N.D.

## USSR/Plant Physiology - General Problems.

I.

Abs Jour : Ref Zhur - Biol., No 18, 1958, 81968

Author : Feofanova, N.D.

Inst :  
Title : The Influence of the Site of Reproduction on Some  
Physiological Features of Seeds and Green Plants.Orig Pub : Tr. po prikl. botan., genet. i selektsii, 1957, 30, No 3,  
60-74Abstract : The respiration of seeds and of green plants was determined (by the formation of CO<sub>2</sub>) in closed vessels by titration of baryta by oxalic acid. 17 different agricultural crops of southern and northern reproductions were studied. The respiration intensity (I) of seeds which were produced in the south is weaker than for the northern ones. The respiration intensity of seeds and of green plants was higher, when the plants were grown on irrigated fields than on dry land (bogara), and on humus rather than on

Card 1/2

USSR/Plant Physiology - General Problems.

I.

Abs Jour : Ref Zhur - Biol., No 18, 1958, 81968

sand. The suction power of the seeds, determined by Buchinger's method increased (for flax, for instance, it went up from 4-48 to 14.56 atm), as the crops moved south. This suction power was lower on highly humid soils than on drier soils. The germination of seeds sharply diminished as the crops moved northward from the south. The respiration of green plants, which had not yet attained the stage of fruit bearing, is more intensive in the event of northern reproduction. However, it is higher in the plants which reproduced in the south, in the case of fruit bearing plants.

Bibliography, 30 titles. --- E.A. Yablonskiy

Card 2/2

- 7 -

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000412910008-6

N.D. Feofanova, (B.I. Razumov)

" $p^{32}$  UPTAKE BY WINTER AND SPRING VARIETIES OF AGRICULTURAL CROPS WITH  
REFERENCE TO THEIR COLD ENDURANCE" by B. I. Razumov, N. D. Feofanova

Report presented at 2nd UN Atoms-for-Peace Conference, Geneva, 9-13 Sept 1958

*FEOFANOVA, N.D.*

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000412910008-6"

FE OF FANOVA, N.D.

NAME	BOOK INFORMATION	DATE
International Conference on the Peaceful Uses of Atomic Energy. - 2nd, Geneva, 1958		5/7/2515
Soviet scientists' publications 1: Primarily isotopes (Science of Soviet Scientists: Production and Application of Isotopes). Moscow, Academy, 1959. 368 p. (Series: Nauk. Trudy, vol. 6) 8,000 copys. printed.		(Report No. 62)
(Title part): G. A. Barshayev, Academician, and I. F. Morkov, Corresponding Member, USSR Academy of Sciences; Ed. (Title page): G. D. Antropov, Tech. Ed.; T.D. Antropova, Tech. Ed.; 2.D. Antropova.		(Report No. 62)
Abstract: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and utilization of atomic energy as potential tools for protection and construction. It contains 116 articles from higher technical schools where nuclear science is taught, and 116 scientific works selected by state defense and technical committees.		(Report No. 62)
Comment: This is volume 6 of a planned set of papers documenting the scientific activities at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. The conference was organized by the International Commission on和平利用原子能, and their local government. 2) Research results obtained with the aid of isotope tracer techniques in the field of chemistry, metallurgy, biology, and applied sciences. 3) Chemistry of radioactive elements. 4) Radioisotopes in medicine. 5) Radiation effects on living organisms. 6) Protection against ionizing radiation. 7) Protection of chemical substances and their properties. 8) Protection of radioactive materials. 9) Control of nuclear reactors. 10) Nuclear energy economy. 11) Nuclear energy and its role in the world economy. 12) Nuclear energy and its role in the world economy.		(Report No. 62)
16. Shengeli, A.Y., V.I. Kostrov, and V.L. Slobtsov. Official Bulletin of High Authority for Radiological Action (Report No. 2024)	21	
17. Gerasim, N.G., Yu. Yu. Kondratenko, and V.V. Popov. Chemia radioaktivnykh i vsekh ostal'nykh izotopnykh sredstv (Report No. 2020)	21	
18. Agrestov, K.E., N.N. Zab, V.V. Polikarpov, Yu.O. Chichikova, Yu.P. Turikova, and N.A. Polikarpova. System of radioisotope examination of industrial structures (Report No. 2027)	22	
19. Agrestov, K.E., V.P. Razin, V.T. Klyuchnikov, and V.V. Sizov. Application of Nuclear Spectroscopy Methods to Steel and Ceramic Structures (Report No. 2023)	22	
20. Berezov, P.B., V.I. Gal'denitsky, and V.P. Berezov. Instrument for Measuring Small Doses of High-energy Neutrons (Report No. 2123)	22	
21. Chichikova, Yu.O., V.L. Polikarpov, and V.L. Melnikova. Fluoride and Analytic Air Concentration by Low Concentration of Aerosol Alpha Detectors (Report No. 2130)	23	
22. Sal'makhov, O.V., V.L. Vereshchagin, and O.A. Sosulin. Photoynthesis studies by Quantitative Radioactive Methods (Report No. 2135)	23	
23. Raskin, Yu.V., and A.Y. Egorov. Studying the Function, Distribution, and Transformation of Certain Physiologically Active Compounds in Plantae (Report No. 2135)	23	
24. Oumar, Isha, Ye.Ne. Krastina, and A.Ye. Petrenko-Bil'skii. Myxism or Absorption and Secretion in Roots (Report No. 2123)	23	
25. Akhremova, A.Y., and V.A. Sharshakov. Effect of the Palaeophytic Micro-organisms on the Absorption and Secretion of Phosphorus and Sulfer by the Seaweed Roots of Seedy Plants (Report No. 2122)	23	
26. Raskin, Yu.V., and N.D. Petrenko. Absorption of Phosphorus Tracers by Cultivated Plants in Relation to Cold (Report No. 2133)	23	
27. Akhremova, A.Y., V.A. Voznitsin, V.A. Molchanova, and A.V. Korolevitch. Some Results of Using Sedimentary Isotopes for Plant Protection (Report No. 2126)	23	
28. Allure of Zincium and Titanium Role in the Sedimentation of Anhydrite in Alluvium of Zincium and Titanium Role by the Sedimentary Isotopes Method (Report No. 2126)	23	

2 11002-65 E.O.(j)/EWG(r)/EWT(l)/FS(v)-3/EG(v)/EWG(a)/EWG(c) Ph-4/Pe-5 DD

ACCESSION NR: AR4047774

S/0299/64/000/013/G005/G005

SUMMARY: Ref. zh. Biologiya. Svodnyy tom, Abs. 18G30

AUTHOR: Feofanova, N. D.

Title: Photosynthesis and respiration processes in flax plants

PUBLISHED SOURCE: Tr. po prikl., genet. i selektsii, v. 35, no. 3, 1963,  
Leningrad

TOPIC TAGS: flax plant, photosynthesis, respiration, radioactive carbon, assimilator

TRANSLATION: Changes in photosynthesis and respiration during  
germination were investigated in 11 kinds ('varieties') of cultured  
flax plants (L. usitatissimum) and in one species of a wild growing  
perennial flax (L. angustifolium). Plants were grown in the field  
under normal agricultural procedures. Photosynthetic intensity was  
determined with C14 by O. V. Zelenskiy's method and respiration  
energy was determined in sealed vessels (DAN, SSSR, 1964, 96, no. 4).  
Long fibered flaxes are characterized by the highest gas exchange

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L 24902-65

ACCESSION NR: AR4047774

level, and semi-winter flax plants are characterized by the lowest level. It was established under experimental vegetative conditions the first phases of the flax development which began in mid-May, the earliest date of sowing.

and initiators are deposited in the form of sugars which are the setting and seed forming materials.

July 19, 1947 13

ENCL: 00

Card 2/2

L 1965-66(A)

ACCESSION NR: AP5021819

UR/0322/65/000/004/0074/0075

641.4

AUTHOR: Chizhov, G. B.; Feofanova, V. I.; Alekseyev, V. G.

79  
B

TITLE: Relationship between the temperature and the permissible storage period of certain food products

SOURCE: IVUZ. Pishchevaya tekhnologiya, no. 4, 1965, 74-75

TOPIC TAGS: food storage, food refrigeration, potato, butter, hog fat, carrot, food technology

ABSTRACT: The exponential relationship established earlier between the permissible period and temperature of storage was checked in products rich in fats (dairy and melted butter, hog fat) and carbohydrates (potatoes, carrots). The samples were stored at 0, 18, and 25°C. The peroxide numbers were determined in the butters and hog fat by titrating the samples dissolved in a chloroform-glacial acetic acid mixture with sodium thiosulfate. The potato and carrot samples were analyzed for carbon dioxide evolved during respiration. Taking as the parameter for the butters and fat the maximum values of peroxide numbers reached at 0°C, and for potatoes and

Card 1/2

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ACCESSION NR: AP5021819

2

carrots the maximum quantity of carbon dioxide evolved at 0°C, the authors represented the experimental results graphically by plotting temperature  $t$  versus log time  $\ln \tau$ , and obtained straight lines; designating the total time of the storage at 0°C by the symbol  $\tau_0$ , they found that the experimental results are represented by the equation  $\ln \tau = \ln \tau_0 - at$ . Values of the slope  $a$  are given for the different food products. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Kafedra kholodil'noy tekhnologii, Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti (Department of Refrigeration Technology, Leningrad Technological Institute of the Refrigeration Industry)

SUBMITTED: 200ct64

ENCL: 00

SUB CODE: GC, LS

NO REF Sov: 002

OTHER: 004

Card 2/2

TRAPEZNIKOVA, O.N.; FEOFANOVA, Ya.I.

Molecular rotation in polymers. Part 1. Vest. LGU 20 no.10:60-75 '65.  
(MIRA 18:7)